



Windows 10 Mobile (LUMIA)

Community Group

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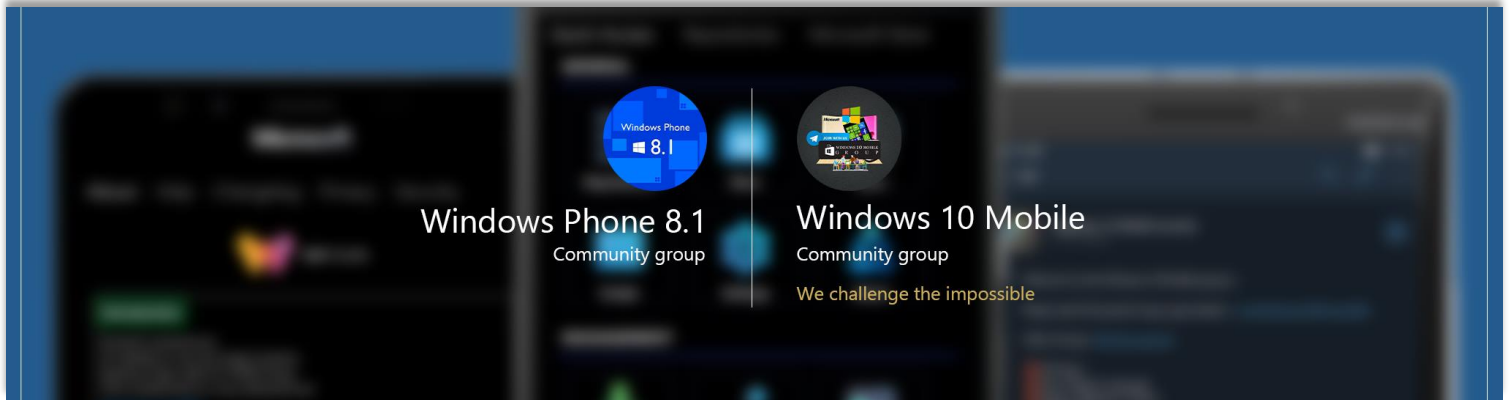


HOW TO ENAB LED NOTIFICATIONS IN CAPABLE W10M DEVICES

COMPLETE-GUIDE

Requirements

- ❖ PC running Windows OS (Minimum: Windows 7 SP1 | Recommended: Windows 8 & above)
- ❖ Interop unlocked compatible device running Windows 10 Mobile.



W10M Group YouTube Channel



YOUTUBE

Apart from these documented Guides, we have started the roll up of **Video Versions** of each guide in our YouTube Channel. Don't forget to **like** and **subscribe**!

How to Enable LED Notification Alerts in Supported W10M Devices



YOUTUBE

If you prefer video guidance over this documented guide, then you can refer to this video version of this guide.

ENABLE LED NOTIFICATIONS IN CAPABLE W10M DEVICES

- > What is LED Alerts?
- > Enabling LED Alerts in capable Devices
- > Customizing LED Alert features & behaviour
- > Frequently Asked Questions (FAQ)





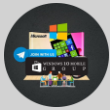
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COMPLETE-GUIDE



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Introduction

| DISCLAIMER

We aren't responsible for any damage/s to your device during the process, do it at your own risk & follow the guide to the letter!

What is this feature?

This is a disabled add-on feature for Windows 10 Mobile.

Just like in other platforms from that era, an LED is set to blink for device application notifications arriving the action center.

Which devices are supported?

Technically, the device **must have a dedicated LED for this feature.**

BUT; in **some** Lumia models with hardware navigation bar, the Windows button can act as the LED as well.

All in all, here are the confirmed working models with each notification method.

LED Alert method	Supported devices
Dedicated LED (RECOMMENDED)	L730, L735, HP Elite X3, Alcatel Idol 4s
Windows navigation button	L520, L635, L810, L830, L925, L1020

(TIP: *This is only the confirmed working list, to have a better judgment if your device is supported or not, look in the next page)*

What are the requirements?

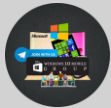
The device **must be capable to deliver LED Alerts.**

Otherwise, even if manually enabled, there will be no LED Alerts.

Also, the **device must be Interop Unlocked.**

You can refer to our Interop Unlock guides to get yours unlocked.





Device compatibility check

NOTE

If this check is **positive** in your device, then **there is a high possibility of this feature working in your device.**

Although, even then, *it may not work in your device as this test is not 100% accurate!*

> Enable Device portal in your device in “Settings → Update & Security → For Developers”

(Make sure to turn OFF authentication)

> Open Edge browser in your Windows 10 Mobile device and copy and paste this into the address bar;

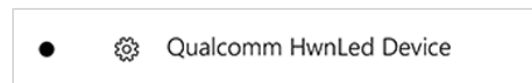
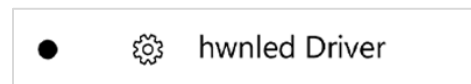
127.0.0.1

> Once the device portal is launched, go to **Device manager** from the side menu.

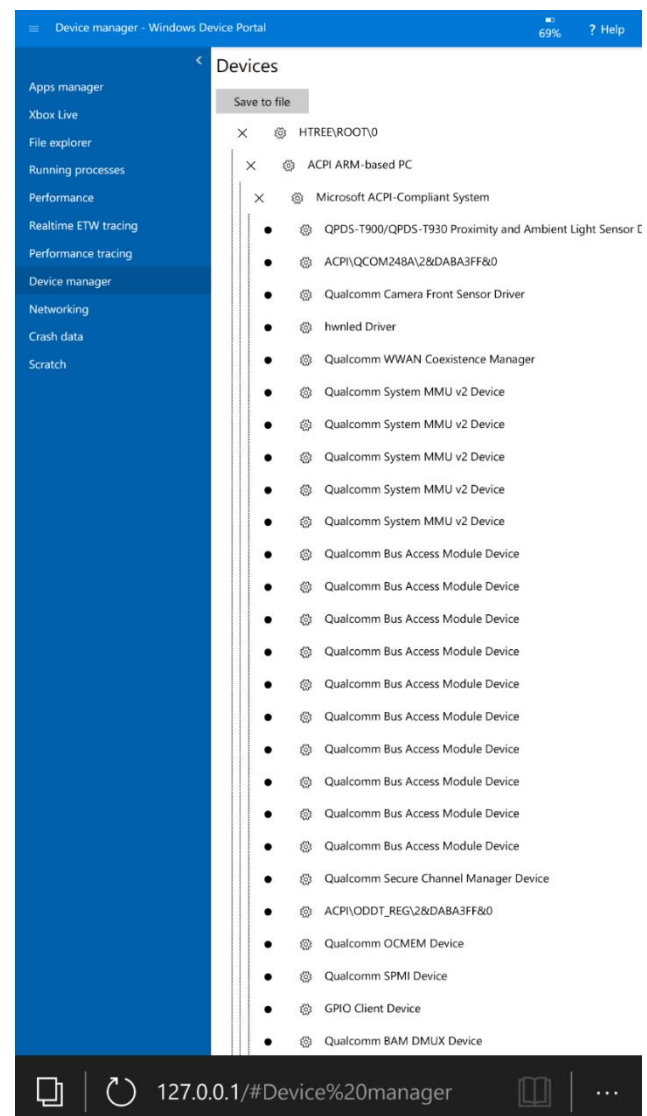
Expand **ACPI ARM-Based PC**.

Then expand **Microsoft ACPI-Compliant System**.

Check if “**Qualcom HwnLed Device**” OR “**henled Driver**” is present in the list.



> If it's present, then your device has a high possibility of this feature working in it.





Limitations

- In some older Lumia devices, the Windows Button will not blink, but will **stay ON constantly**.

PRE-NOTES (MANDATORY)

- ✗ Once the LED Alert feature is installed, you **cannot uninstall it from the system thereafter**.

If you really want to get rid of it, then you will need to re-flash your device via WDRT, WPI or any flashing tool.

(TIP: It's not a bummer as even if the feature doesn't work, it will not affect usability of the device so it's not practical to re-flash the device just to uninstall it)

- ✓ Make sure the device battery is charged **at least up to or above 40%** (Charging fully is recommended)

- ✓ This guide is more focused on to the devices with **Dedicated LED**.

Although, Windows Button blinking is not a bad method but we recommend the Dedicated LED method more.

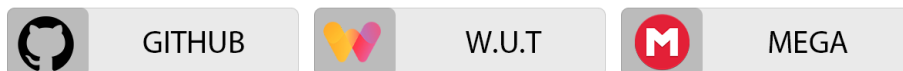
Preparations

Download **Windows Phone common packaging tools** & install to your PC.

 WP_CPTT_NT-x86-fre



Download **Interop Tools** & install in your Lumia.





Download correct LED Alert update package

> In your Phone, go to; “**Settings** → **System** → **About**” & click **More info**.

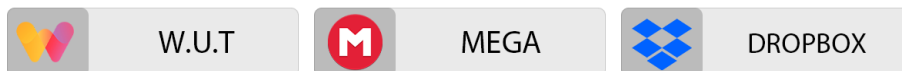
> There, take a good note of the **OS build**.

Now, download the package matching that code from below;

10.0.10586.107 LED Alert CAB (CBS)



10.0.14393.1066 LED Alert CAB (CBS)



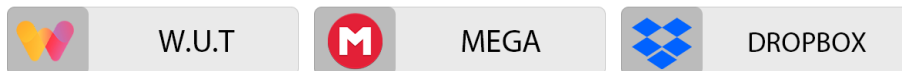
10.0.14393.2551 LED Alert CAB (CBS)



10.0.15063.297 LED Alert CAB (CBS)



10.0.15254.603 LED Alert CAB (CBS)



Device information

Model: Microsoft Lumia 950 XL

Software: Windows 10 Mobile

Installed RAM: 3 GB

Version: 1709

OS build:

Firmware revision number: 01078.00053.16236.35018

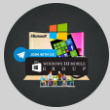
IMPORTANT NOTE

Download & use only the cab that matches your W10M Build! (No matter the file names being the same, contents differ)

FALSHING A MISMATHCING CAB CAN CAUSE;

- LED Alert feature may be completely unusable / Unreliable.
- You may notice sudden crashes of apps / LED Alert feature.
- Your Phone performance can be downgraded, can expect a more sluggish experience & an unstable system.

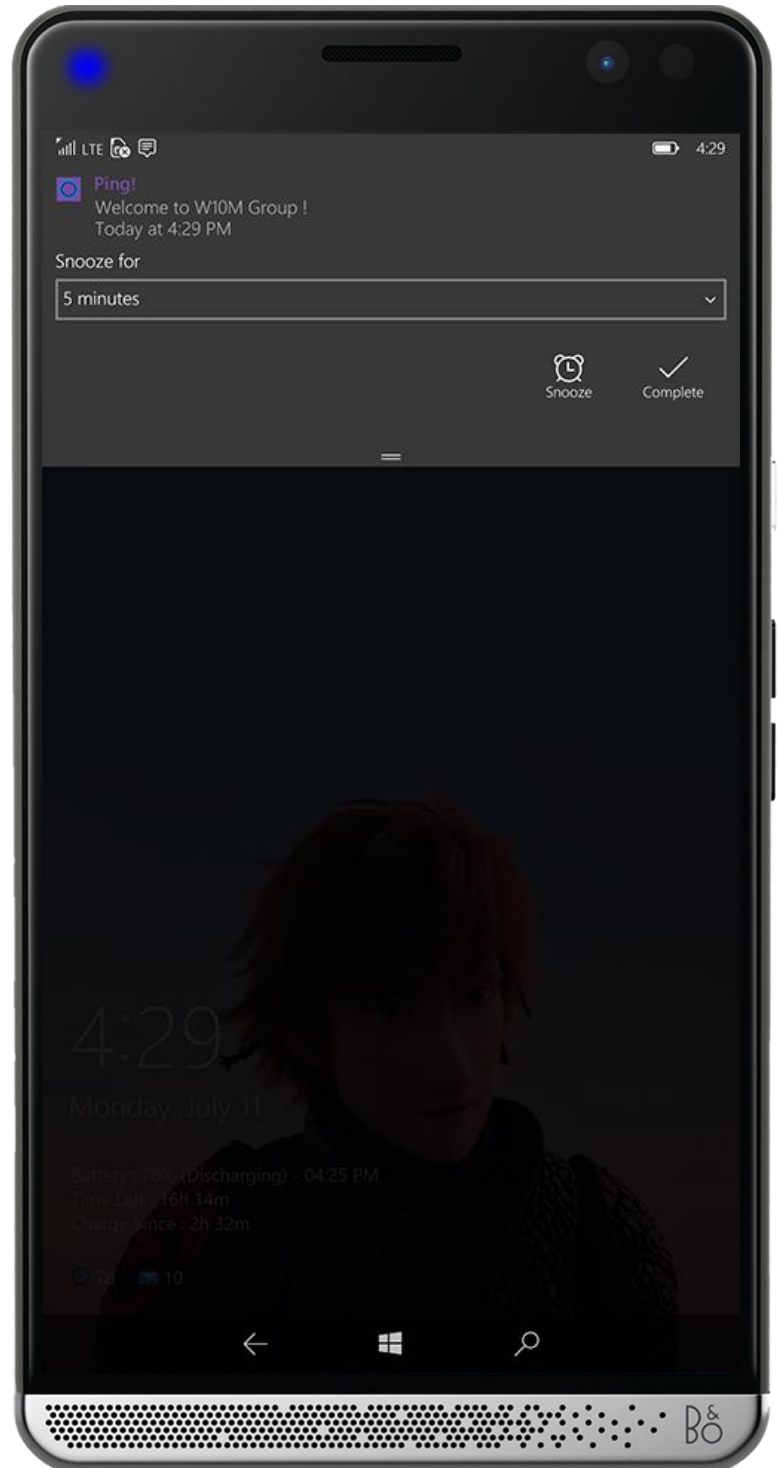


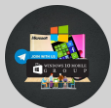


How to Install & enable LED Alert feature

For easier explaining, I will divide the complete procesudre in to two main topics.

1. [Install LED Alert feature update package.](#)
2. [Enable LED Alert feature in the system.](#)



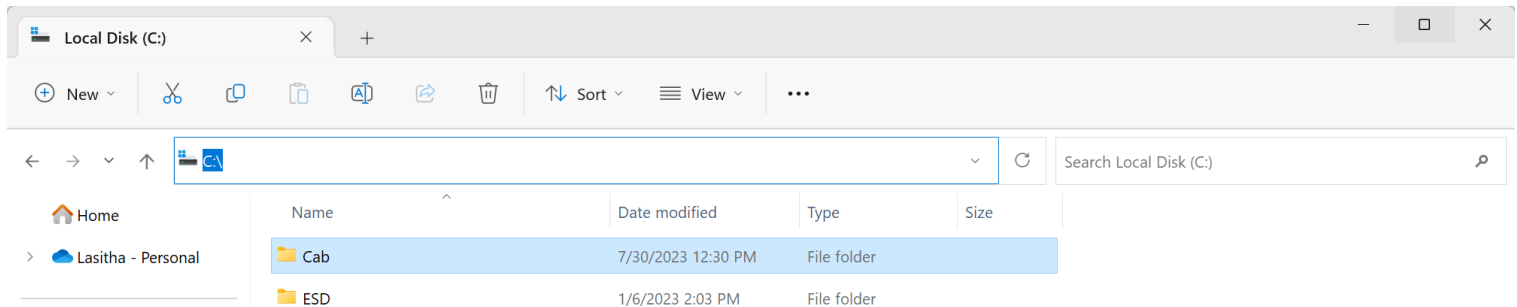


01. Install LED Alert feature update package

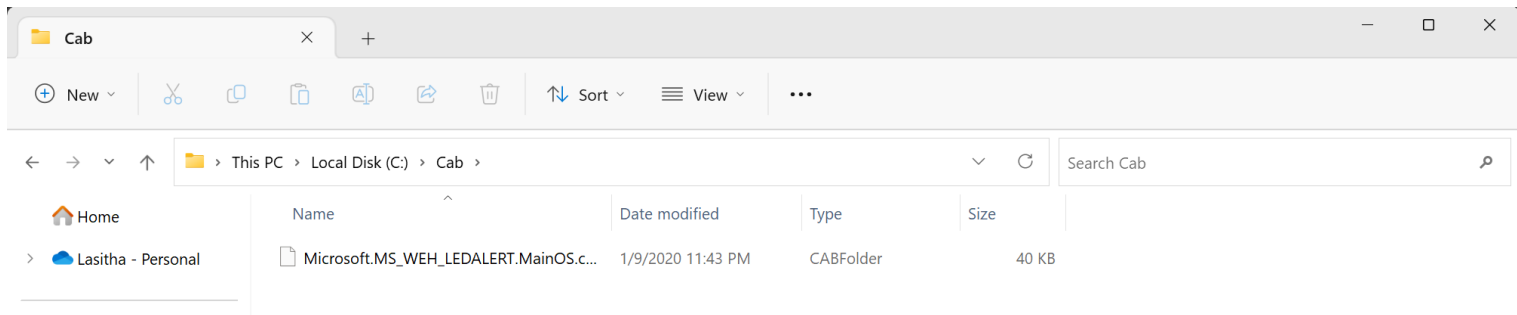
Before being able to enable LED Alerts, the feature needs to be installed into the system, which is what we are going to do via the [downloaded update package](#).

> Connect your Windows 10 Mobile device to your PC via a USB Connection.

> First, create a new folder in the root partiton (*where Windows is installed*) of your PC and name it as “**Cab**”

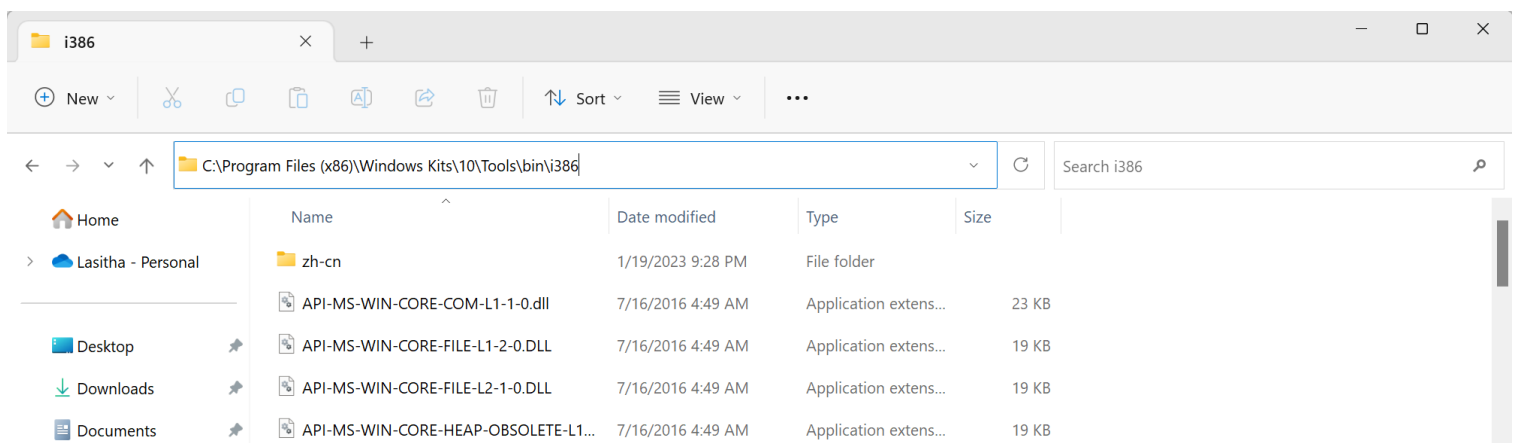


> Now, move the LED Alert CAB we [downloaded from above](#) in to this folder.



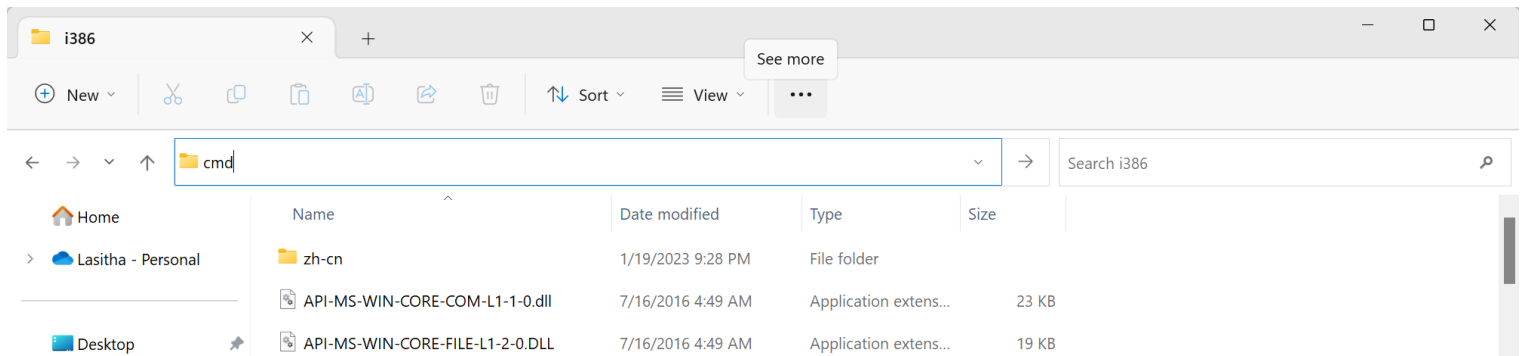
> Then go to the below directory in your PC.

C:\Program Files (x86)\Windows Kits\10\Tools\bin\i386

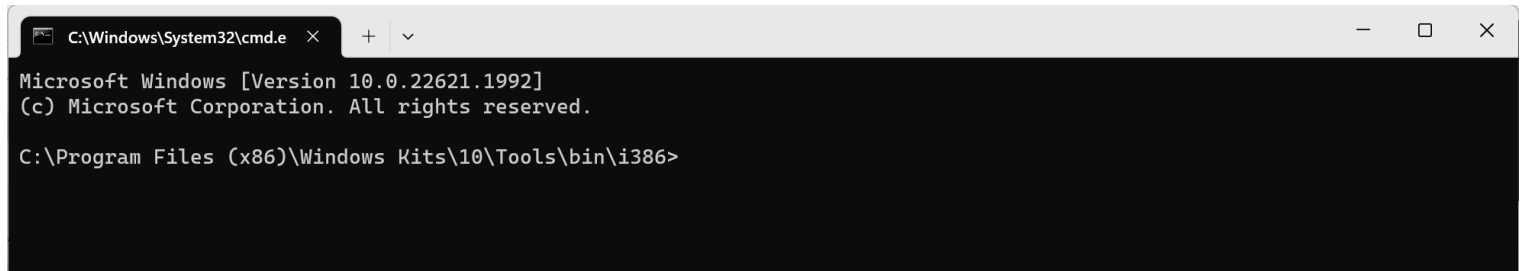




There, click on the address bar and type **CMD** & press enter.



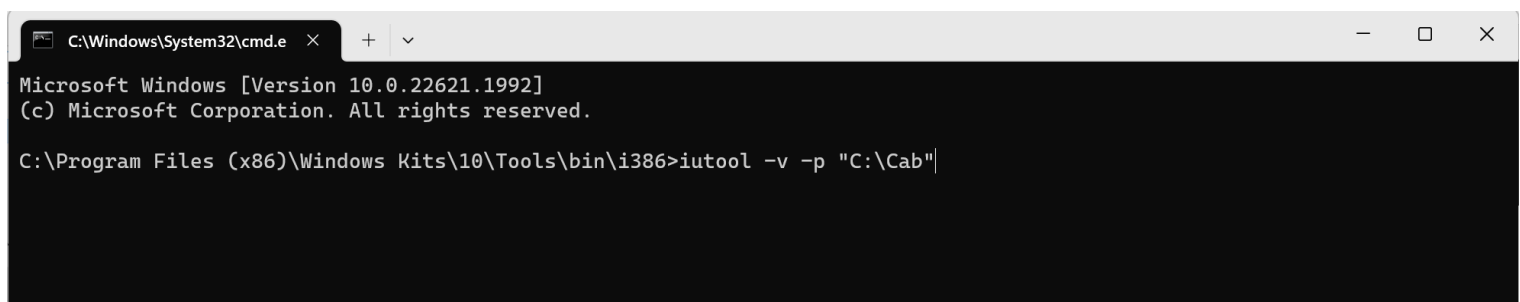
That will open a command window in that directory.



> Now, copy & paste the below command to the command window;

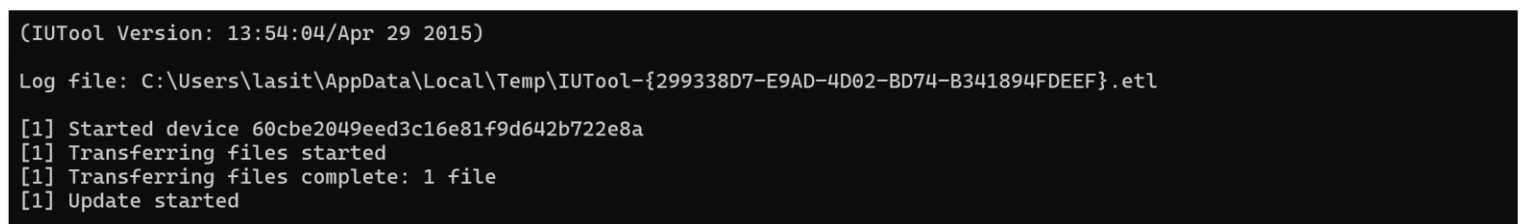
Iutool -v -p "C:\Cab"

(Will need to change paths if you did not place the files [according to the guides instructions](#))



Double check the command & press enter to push the LED Alert package to the phone.

It will display stats of the process.





> As soon as the above prompt is displayed in the command window, go to update settings of your phone.

“Settings → Update & Security → Phone / Windows Update”

An update will be progressing and as soon as it reach 100%, your phone will reboot.

Update status

Updates are available.



Preparing to install updates 23%

After the reboot, the typical rotating cogs will take place.

It will also have a progress bar.

(It will only take a few seconds or minutes for it to finish)



> Once the device boots back after finishing the update installation, your device is now equipped with everything needed to enable the feature.

Now all we gotta is to **ENABLE** it in the system!



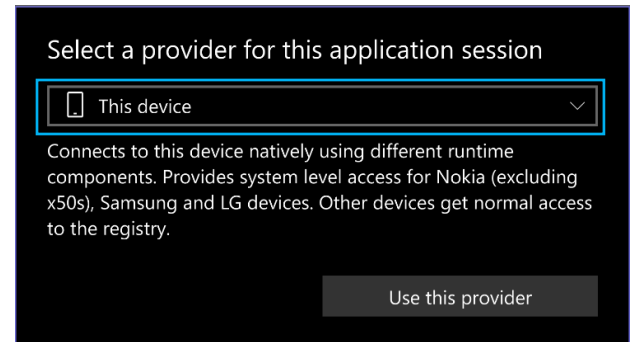
02. Enable LED Alert feature in the system

To get it enabled, we need to edit the registry of the device.

BUT, thanks to Interop Tools, we **can do the required registry edits automatically via activating a simple toggle instead of manually doing them!**

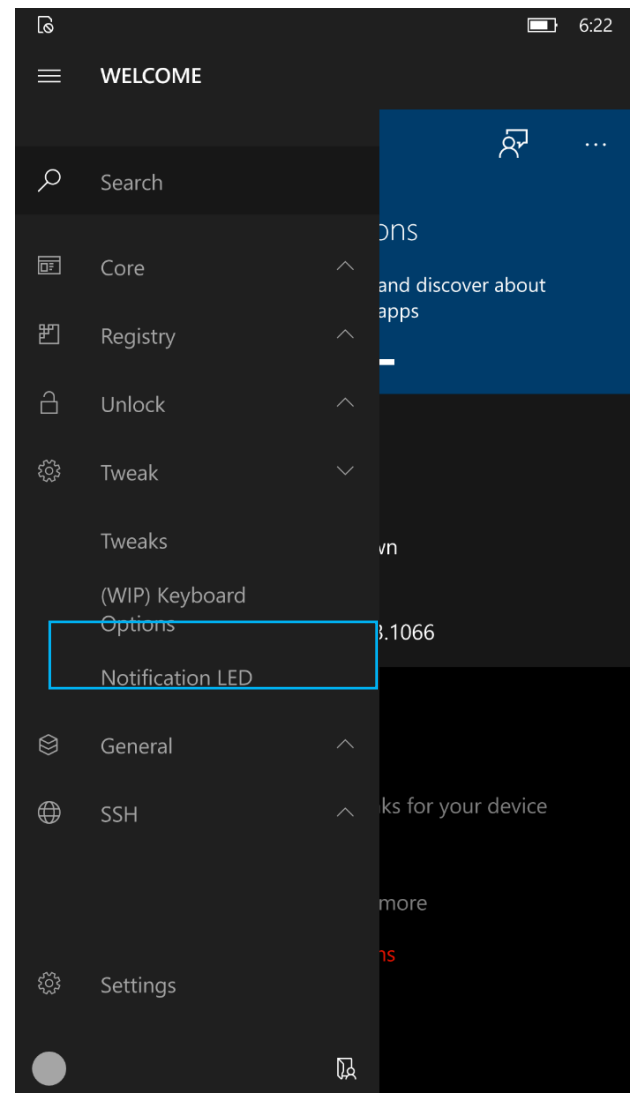
> Open **Interop Tools**.

Choose **"This Device"** as the registry provider.



> Open hamburger menu & expand **Tweak** section.

Click on the **Notification LED** entry.

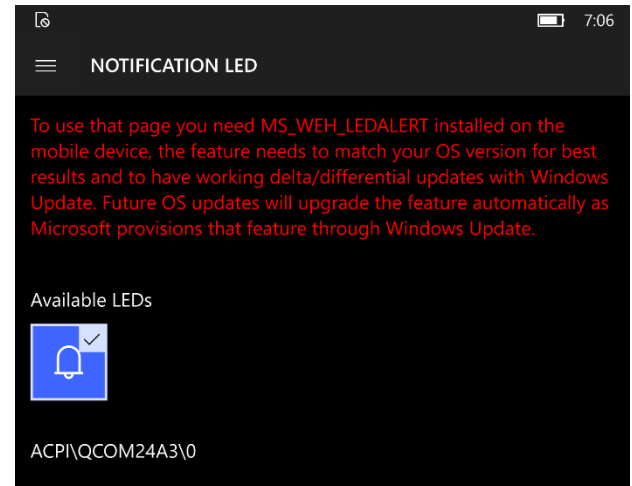




> There, click on the **bell icon button** under the text “Available LEDs”

As soon as you click, a new text string will appear below the button.

Now, restart your device!

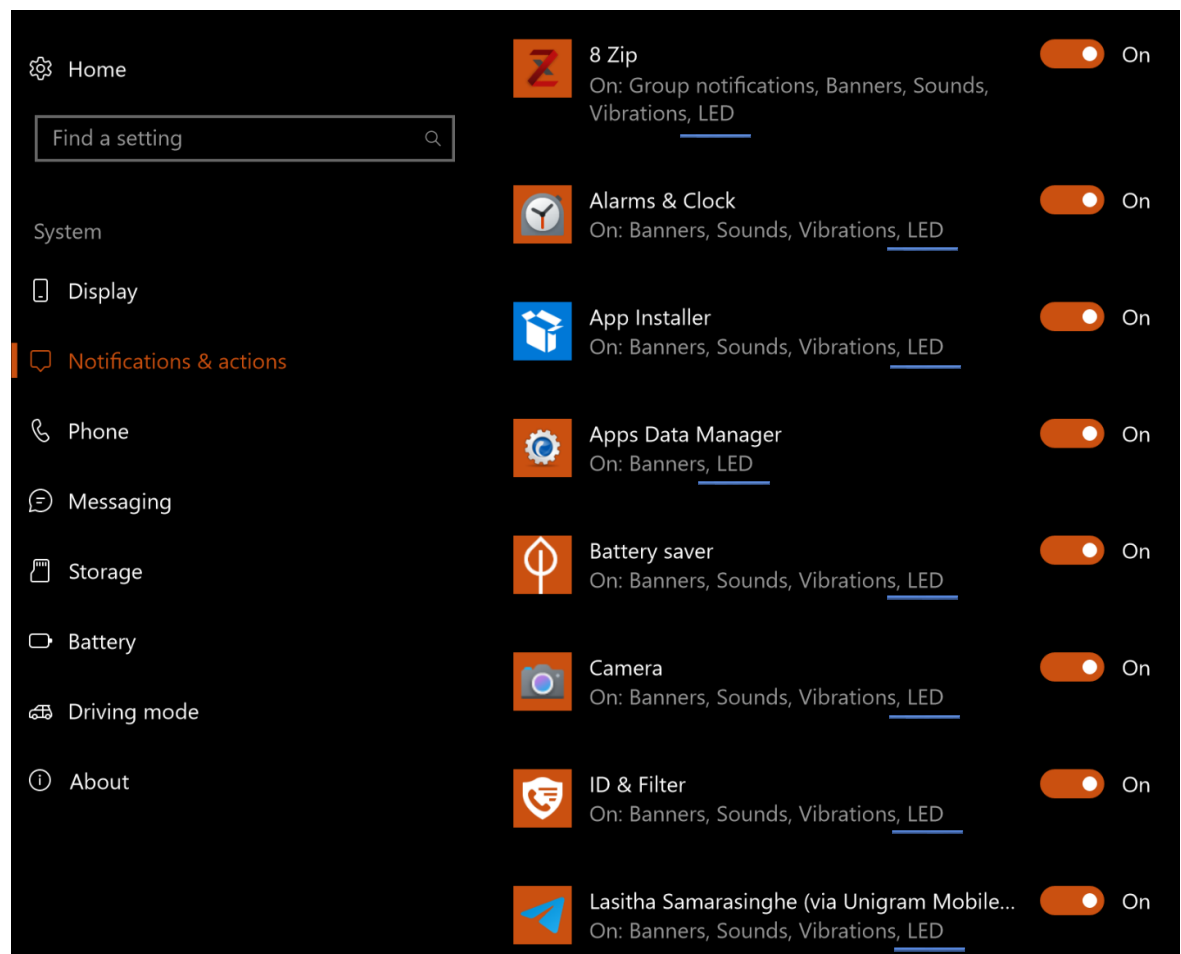


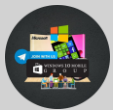
> Once the device boots back, go to;

“Settings → System → Notifications & actions”

There, every app which has notification access should have **LED** as a notification setting.

That means the process is over!





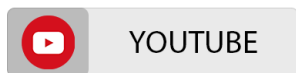
OPTIONAL: Install LED Alert Without-PC

The method described in this guide uses the IUTool executable which is used in Windows PCs.

But, if you don't have a Windows PC, then you can do it all in your Windows 10 Mobile device without a PC too using an application to replicate IUTool function.

And...that tool is; **IUWP**

Refer to the below video from us to get the tool downloaded & know how to use the tool.



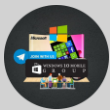
What exactly you need to do?

> Only change you need to do is with the steps in [Install LED Alert feature update package part](#).

Use IUWP to install the CAB instead of using iutools.

All you gotta do is; go to, **IU Tasks** → **Install Packages** in IUWP & choose the correct LED Alert CAB [downloaded from above](#) and install it.

> Then continue on with the [Enable LED Alert feature in the system](#) steps to get it enabled!



TOUBLESHOOT: IUTool error codes

If you are getting an error when pushing the LED Alert CAB package via IUTool, then refer to the below official Documentation to find the cause & solution.



W.U.T



MEGA

IUTool error codes

07/08/2016 • 8 minutes to read

The following are error codes from IUTool.exe. For more info, see [IUTool.exe: Update packages on a device](#).

Error code	Error name	Additional notes
0x00000000	SUCCESS	Success (no error)
0x80004001	E_NOTIMPL	
0x80004002	E_NOINTERFACE	
0x80004003	E_POINTER	
0x80004004	E_ABORT	
0x80004005	E_FAIL	
0x8000FFFF	E_UNEXPECTED	
0x80040154	E_CLASSNOTREG	Class not registered
0x80070002	ERROR_FILE_NOT_FOUND	
0x80070003	E_PATH_NOT_FOUND	
0x80070005	E_ACCESSDENIED	

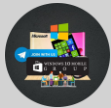
Still not finding the solution for an error?

You can post in our Community group and ask for help to resolve the issue.

**W10M Group**

TELEGRAM



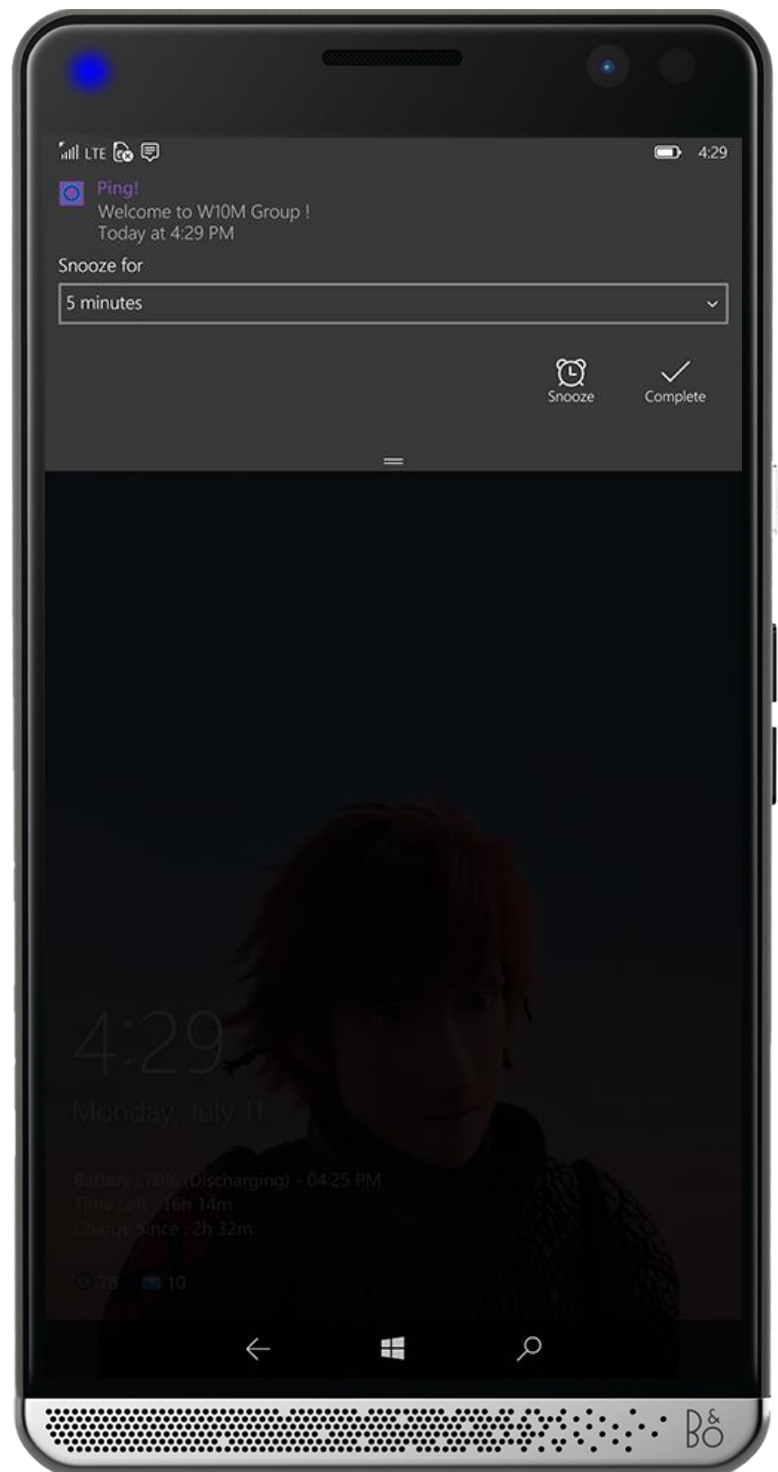


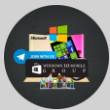
How to customize LED Alert feature behaviour

In order to get along with something, Customization is a mandatory thing!

That applies to this feature as well, you can customize these aspects of this feature;

- [Customize LED Intensity.](#)
- [Customize LED Blink period.](#)
- [Customize LED Alerts status for each application.](#)





• Customize LED Intensity

About: By this, you can adjust the LED brightness level when blinking.

| Automated method

This is the easy method with user interactive controls to change the LED intensity.

> Open Interop Tools.

> Go to the same page where you used to enable the LED Alert feature.

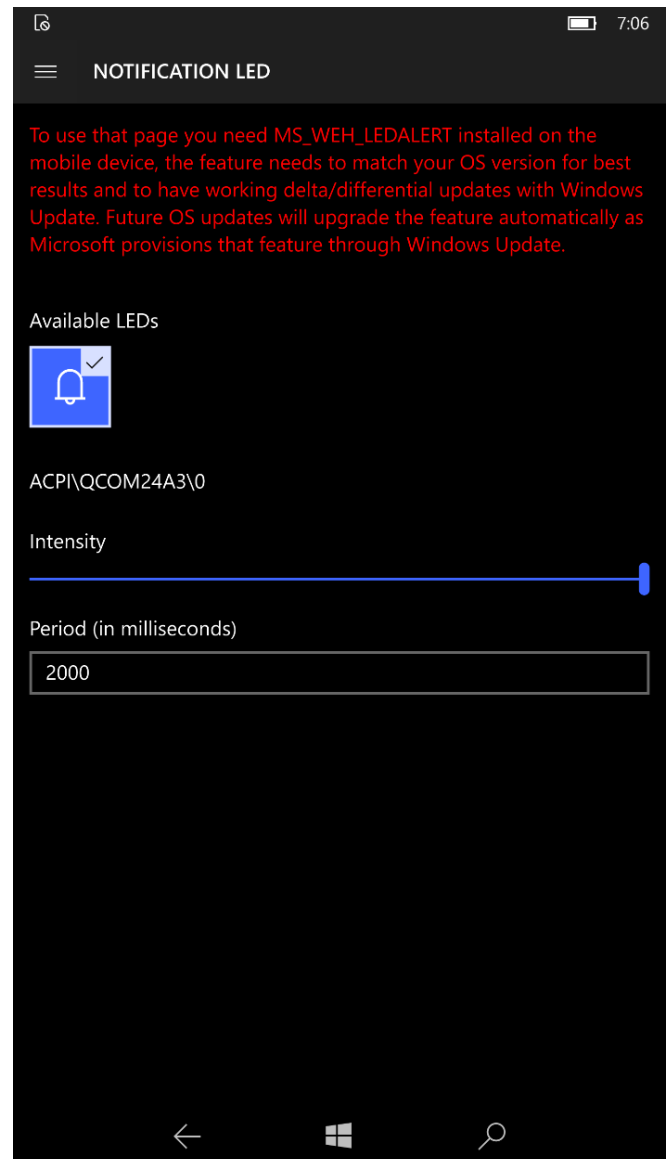
(Side menu → Tweaks → Notification LED)

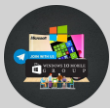
> Adjust the **Intensity slider** to the value you like.

(100 is the brightest & 1 is the dimmest)

> **Restart your phone** to see the change in effect.

TIP: Clearing all the notifications from the action center is an alternative for device restart.





| Manual method

This is the manual way in case the Automated method isn't working (*Or want to go all manual for whatever reason*)

> Open Interop Tools.

> Go to Registry browser from the side menu.

(*Side menu → Registry → Registry browser*)

> Go to the below path;

HKEY_LOCAL_MACHINE (HKLM) → SOFTWARE → Microsoft → Shell → Nocontrol → LedAlert

> Find and click on **Intensity** key.

> Change the value to any from **1** to **100**

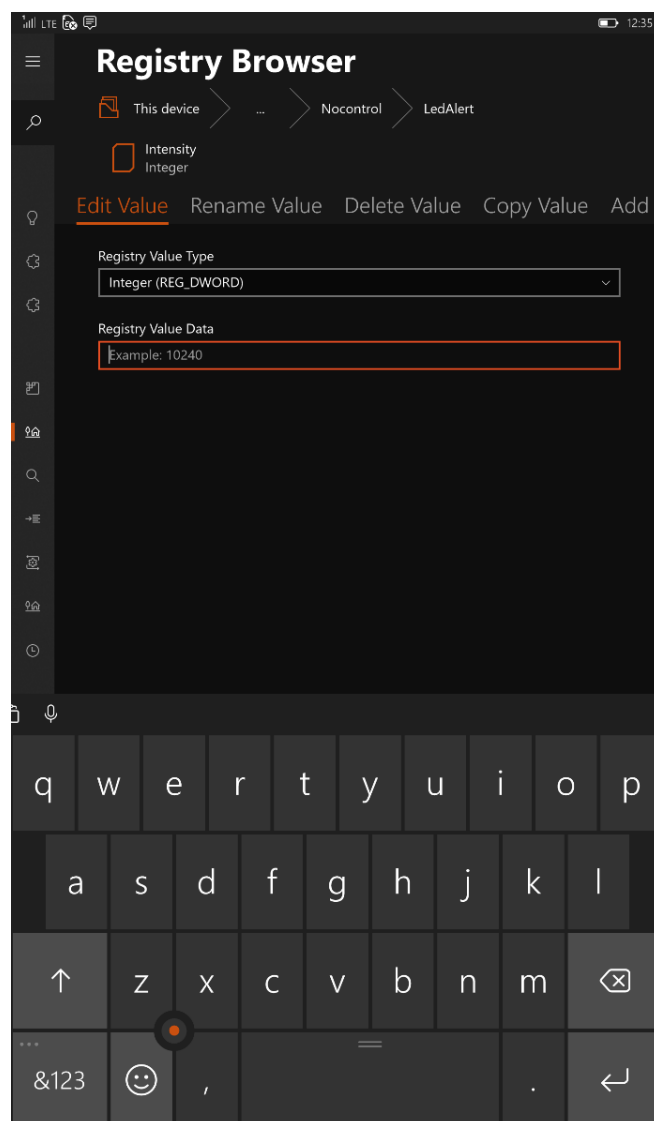
(*1 means the lowest brightness and 100 is the highest brightness*)

[DEFAULT VALUE: **100**]

> Once you are done editing, save the value.

> **Then restart your device!**

TIP: *Clearing all the notifications from the action center is an alternative for device restart.*





- **Customize LED Blink period**

About: By this, you can change how much time the LED should stay per blink.

| Automated method

This is the easy method with user interactive controls to change the LED intensity.

> Open Interop Tools.

> Go to the same page where you used to enable the LED Alert feature.

(Side menu → Tweak → Notification LED)

> What you have to do is, to input a value in to the **Period text box**.

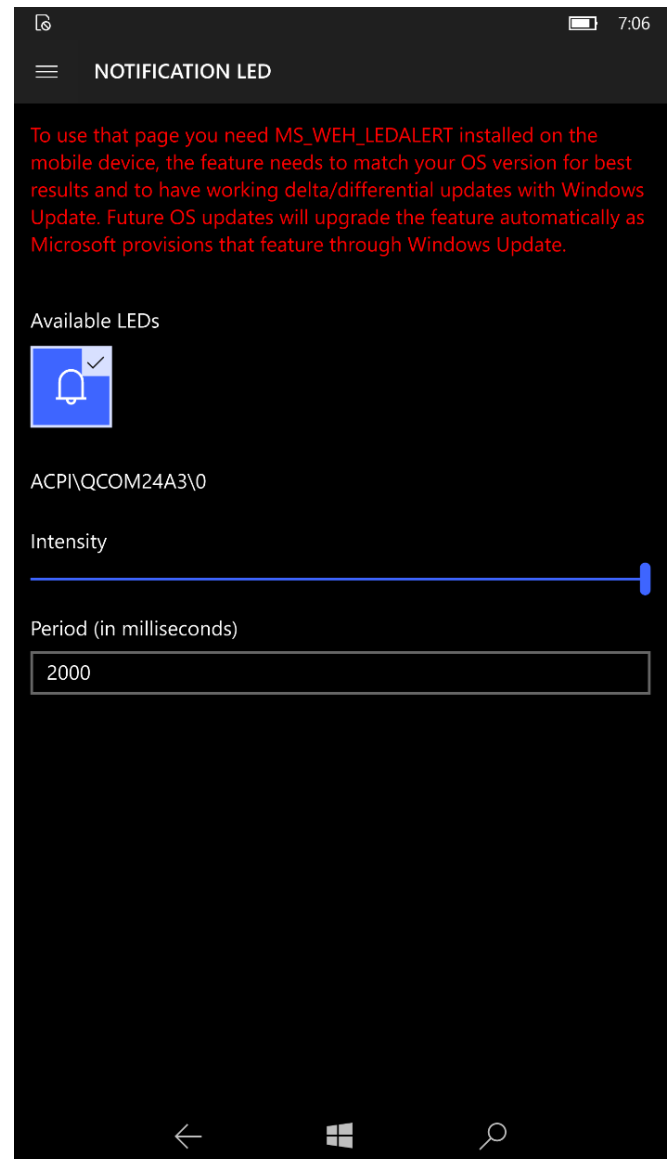
But, the value is in Milliseconds.

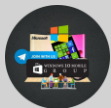
1 Second = 1000 Milliseconds

So, input the value you want **after converting the seconds you want into milliseconds**.

> **Restart your phone** to see the change in effect.

TIP: Clearing all the notifications from the action center is an alternative for device restart.





| Manual method

This is the manual way in case the Automated method isn't working (*Or want to go all manual for whatever reason*)

> Open Interop Tools.

> Go to Registry browser from the side menu.

(*Side menu → Registry → Registry browser*)

> Go to the below path;

HKEY_LOCAL_MACHINE (HKLM) → SOFTWARE → Microsoft → Shell → Nocontrol → LedAlert

> Find and click on **Period** key.

> What you have to do is, to input the time value..

But, the value is in Milliseconds.

1 Second = 1000 Milliseconds

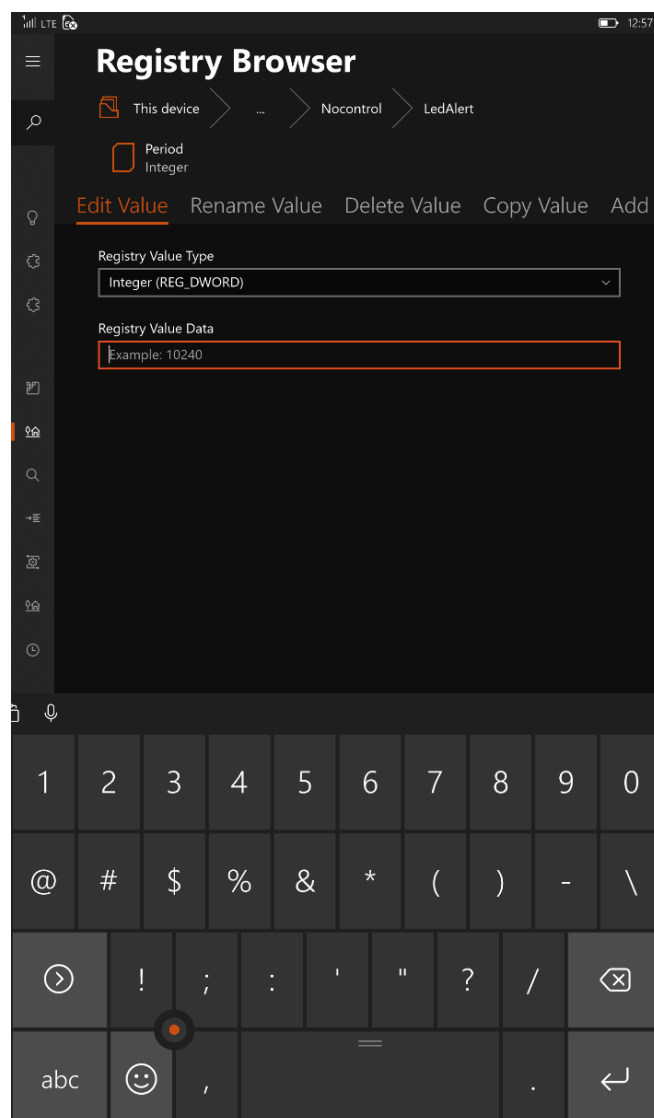
So, input the value you want **after converting the seconds you want into milliseconds**.

[DEFAULT VALUE: **2000**]

> Once you are done editing, save the value.

> **Then restart your device!**

TIP: *Clearing all the notifications from the action center is an alternative for device restart.*





• Customize LED Alert status for each application

About: By this, you can turn ON / OFF LED Alerts for each application.

> In your phone, go to;

Settings → System → Notifications & actions

> There, as usual, you will see every application which has notification access.

> Find the application you want and click on it.

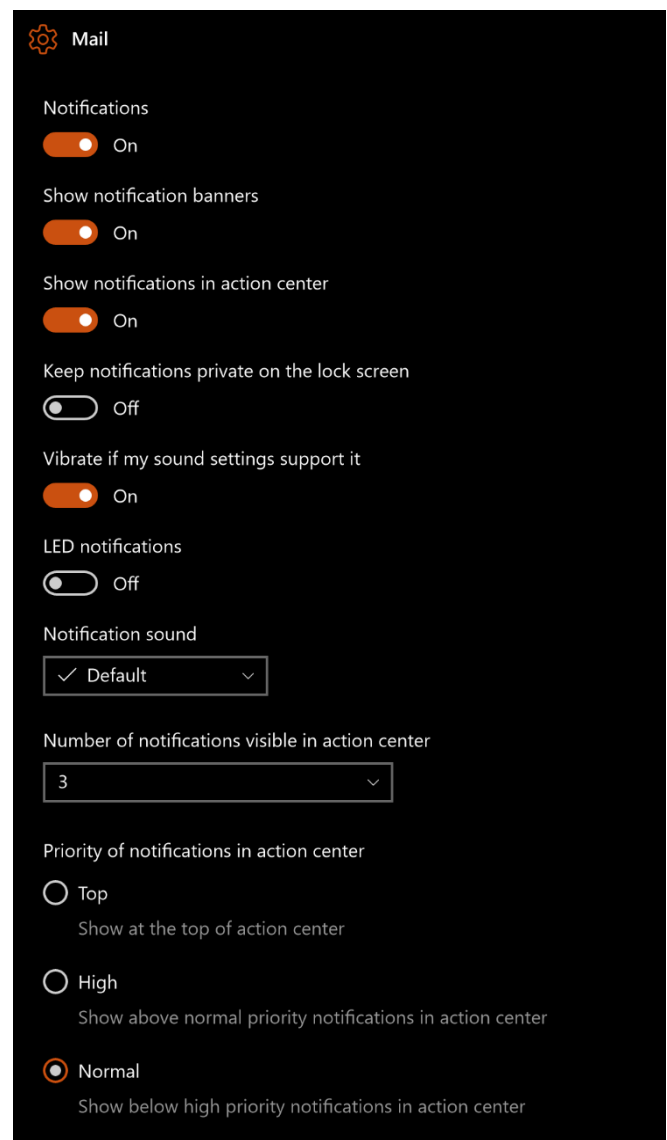
Then, you will be presented with the notification settings for that specific app you clicked.

> Toggle **ON/OFF** the **LED notifications** entry at the end.

If you **turn OFF the toggle**, next time a notification arrives for that app, the **LED will not blink**.

If **turned ON**, the **LED will always blink for any notification from that app**.

> This way, you can turn OFF LED notification alerts for apps with less priority and keep it ON for important apps.





Frequently Asked Questions (FAQ)

Q. Does LED Alerts work even when the phone is locked?

A. Yes, **it will fully work even when the phone is locked**, whenever a push-notification arrives from an app which has LED Alerts enabled.

Q. Once started to blink, **how can I make it stop blinking?**

A. It will blink as long as the notification/s which has LED Alerts enabled are in the Notification / Action center, **clear them to stop blinking.**

Q. After installing the CAB and after the updating cogs completed, my phone won't boot up, **it's stuck in Windows / Device manufacturer logo, how can I resolve?**

A. Simply **connect your phone to the charger and leave it plugged in.**

Q. My Windows Button isn't blinking, **instead it lights up steadily until I dismiss the notification/s, is this normal?**

A. **This is normal**, some *older Nokia Lumia devices* such as 920, 1020 can have this behavior.

Q. LED Alert feature **sometimes stop working randomly**, is there a reason for it?

A. If the **battery saver is turned ON**, then **LED Alert feature will automatically gets disabled** to save battery, so check if that's the case.

Otherwise, it may be due to incorrect installation of the feature.



Q. If I hard reset my device, will I lose the feature?

A. **Partially yeah**, you will just have to Interop Unlock your phone again & do the [Enabling LED Alert](#) part of this guide.

Q. CAB for the OS version I have in my phone is not in the list, what can I do?

A. The safest method is to **downgrade OR Upgrade to an OS version which has a CAB in the [download list](#) and set-up LED Alert feature thereafter.**

(If you downgrade and set-up LED Alerts, you can then update via Windows Update settings to the build you were before the downgrade, that will update the LED Alert feature as well)

Q. Can I remove LED Alert feature once installed if I wanted to?

A. Sadly no, although *there are no side effect for having the feature installed even when it's not functioning correctly.*

If you really want to uninstall LED Alert feature completely, *you will have to **Re-flash** your device using WDRT, WPI or any other tool.*

Q. I accidentally pushed an incorrect CAB package to my device and due to that, LED Alert feature *isn't working as intended*, can I fix it without a full-reflash to uninstall it?

A. You just have to **push the correct LED Alert CAB matching the Phone OS to the phone** ([Download from here](#))

Q. Is it ok to update the device OS after installing LED Alert feature?

A. *If you are updating via Windows Update settings / using a proper updater tool*, then **you won't need to worry as the LED Alert feature will also gets updated along with the OS update.**

BUT, if you are updating the device using **pre-saved CAB files of your device**, then you **should include the LED Alert CAB of the update in to the same CAB list of your device** ([Download from here](#))





Credits

- ✓ Microsoft for the WP Common packaging tools, LED Alert feature & CABs, IUTool.
- ✓ Gustave Monce for Interop Tools & IUWP.

That is all for this guide.

THANK YOU!!

Lasitha Samarasinghe

